## **ABSTRACT**

The apparatus comprises a mold assembly including at least one bore therethrough having a cavity [[(44)]] therein defining the shape of the finished microneedle shape [[(58)]] to be formed therein. The bore has an inlet opening [[(46)]] and an exit opening [[(45)]]. The apparatus also comprises means for locating the polymer to be formed at one end of the cavity and means [[(26)]] for introducing fluid into the inlet opening of said bore and into the cavity. The apparatus also comprises exhaust means [[(56)]] communicating with the exit opening of the bore, so that introducing the fluid through the polymer causes the polymer to assume the shape of the cavity and the fluid forms a hollow channel [[(52)]] to define a needle-like structure [[(58)]] in the polymer as the fluid is exhausted through the cavity [[(44)]] and the bore.